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Kiwifruit seed collecting device

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ABSTRACT

The invention discloses a kiwifruit seed collecting device, which comprises a lower bottle body, an upper bottle body and a rolling device arranged in the lower bottle body. wherein the upper bottle body comprises a lower annular structure, a middle hollow truncated cone-shaped structure and an upper solid cylinder; the lower annular structure and the middle hollow truncated cone-shaped structure are sequentially connected with the upper solid cylinder; threads are arranged on the inner side of the lower end of the upper bottle body; the threads on the upper bottle body are matched with the threads arranged on the outer side wall of a connecting ring; the upper bottle body and the lower bottle body are in threaded connection, the outer side wall of the solid cylinder is provided with the threads, a circular plate with a filter outlet in the middle part. The seed collected by the invention has higher purity, less pulp doped in the seed, does not need to be directly kneaded by hands, and has the value of popularization and use.

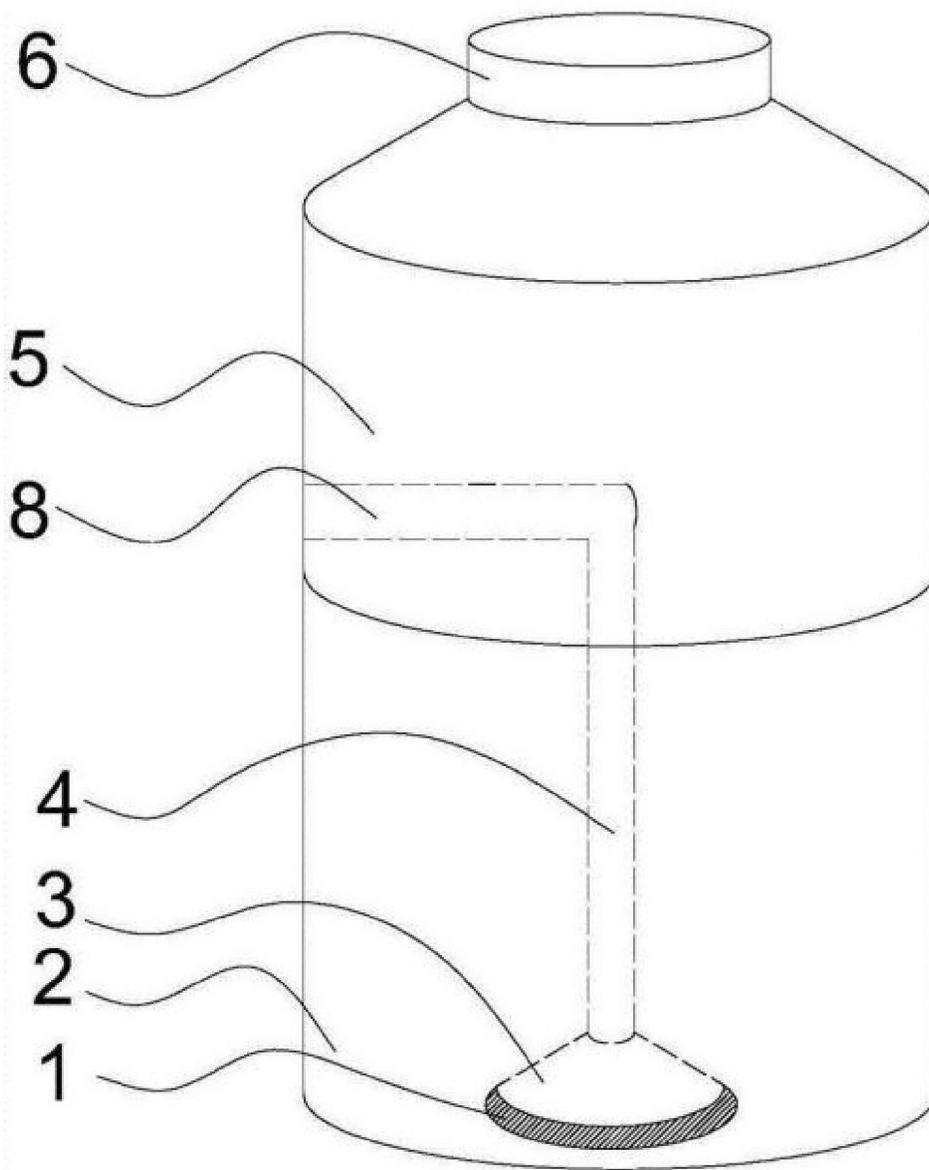


Figure 1

Kiwifruit seed collecting device

TECHNICAL FIELD

The invention relates to the field of kiwifruit production and culture, in particular to a kiwifruit seed collecting device.

BACKGROUND

Kiwifruit is a wild woody vine fruit tree native to my country, belonging to the Actinidia family (Actinidiaceae). As a world-recognized emerging fruit, it contains a variety of amino acids and vitamins, as well as rich trace elements. It plays an important role in maintaining human health and has broad development prospects. Since the beginning of the 21st century, China's kiwifruit industry has developed rapidly, with its cultivation area and output ranking the first in the world, and it is continuously expanding, which has prompted the kiwifruit seedling market to continue to heat up. At present, most of kiwifruit planting are grafted seedlings. The quality of grafted seedlings largely depends on the quality of seedlings. The quality of seeds plays a key role. The collection of kiwifruit seeds is relatively important.

The patent authorized announcement number CN204579839 U discloses a kiwifruit seed collector, which comprises a gauze bag and a gauze bag. A connecting tube is arranged between the gauze bag and the gauze bag, and the connecting tube is fixedly connected to the gauze bag. The tube is movably connected with the gauze bag. The present invention combines the principles of kneading and filtering. When used, the ripe and soft fruit is taken and the seeds and pulp are squeezed into the gauze bag for rubbing. After the juice is exhausted, it is transferred into the yarn through the connecting tube. Rinse the net bag with water and put it into the pot. The seeds are filtered out of the gauze bag and the impurities are left in the gauze bag; then the empty particles and some small impurities floating in the pot are taken out, and the water is filtered out with a gauze bag to obtain the seeds. The gauze kneading method is time-consuming and labor-intensive, and it will inevitably filter out a large amount of pulp when the gauze bag filters out the seeds, which makes the seed purity low and contains more impurities. Therefore, further improvement of the kiwifruit seed collector is required.

SUMMARY

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The invention aims to provide a kiwifruit seed collecting device to solve the problems in the prior art.

In order to achieve the above-mentioned purposes, the invention provides the following technical schemes:

A kiwifruit seed collecting device comprises a lower bottle body, wherein the lower bottle body is in a barrel-shaped structure with an opening at the upper end; a connecting ring is also arranged at the opening at the upper end of the lower bottle body; threads are arranged on the outer side wall of the connecting ring; the inner side of the connecting ring is flush with the inner side of the lower bottle body;

It comprises an upper bottle body, wherein the upper bottle body comprises a lower annular structure, a middle hollow truncated cone-shaped structure, an upper solid cylinder and a lower annular structure; the middle hollow truncated cone-shaped structure is connected with the upper solid cylinder in sequence; threads are arranged at the inner side of the lower end of the upper bottle body; the threads on the upper bottle body are matched with the threads arranged on the outer side wall of the connecting ring; the upper bottle body is in threaded connection with the lower bottle body; the outer side wall of the solid cylinder is provided with the threads;

It comprises a bottle cap, wherein threads are arranged on the inner side of the bottle cap; the threads on the inner side of the bottle cap are matched with the threads on the outer side wall of the solid cylinder;

It comprises a rolling device placed in the lower bottle body, the rolling device includes a handle and a pressing plate, the handle is elongated, and one end of the handle is connected to the upper part of the pressing plate; A cross bar is fixedly connected to the inside of the bottle body, the other end of the cross bar is fixedly connected with the other end of the handle, and the handle is perpendicular to the cross bar.

Specifically, the lower part of the pressing plate is sleeved with a rubber sleeve. By adopting the pressing plate of the rubber sleeve, the soft contact with the kiwifruit is realized, the contact area is enlarged, and the kiwifruit seeds cannot be damaged by pressing.

Further, the length of the handle is longer than the height of the lower bottle body. The length of the handle is longer than the height of the lower bottle body, so that the kiwifruit can be conveniently crushed by hands.

Compared with the prior art, the invention has the advantages that:

The kiwifruit seed collecting device disclosed by the invention has the advantages that the purity of the collected seeds is higher, less pulp is doped in the kiwifruit seed collecting device, and the kiwifruit seed collecting device does not need to be directly kneaded by hands, so that the kiwifruit seed collecting device has the value of popularization and use.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 is a structural diagram of the invention;

Figure 2 is a detailed view of the structure of the lower bottle body according to the present invention;

Figure 3 is a top view of the solid cylinder according to the present invention.

In the Figure, 1, rubber sleeve, 2, lower bottle body, 3, pressure plate, 4, handle, 5, upper bottle body, 6, bottle cap, 7, connecting ring, 8, cross bar, 9, filter outlet.

DESCRIPTION OF THE INVENTION

The technical solution in the embodiment of the present invention will be clearly and fully described below in conjunction with the accompanying Figures of the embodiment of the present invention, and it will be apparent that the described embodiment are only a part of the present invention, and not all the embodiment. Based on the embodiment of the present invention, all other embodiment obtained by one of the ordinary technicians of this field without creative labor are within the protection scope of the present invention.

Referring to Figure 1, Figure 2 and Figure 3, the present invention provides a technical solution:

A kiwifruit seed collection device, which comprises the lower bottle body 2, the upper bottle body 5, the bottle cap 6 and the rolling device placed in the lower bottle body 2. Wherein the lower bottle body 2 is a barrel-shaped structure with an open upper end, a connecting ring 7 is also provided at the upper opening of the lower bottle body 2, and a thread is provided on the outer side wall of the connecting ring 7. The inner side of the connecting ring 7 is flush with the inner side of the lower bottle body 2; the upper bottle body 5 includes a lower annular structure, a hollow truncated cone-shaped structure in the middle and a solid cylinder in the upper part, which are connected in sequence. The upper bottle body 5 is provided with threads on the lower end, and the threads on the upper bottle body 5 match the threads provided on the outer side wall of the

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connecting ring 7. The upper bottle body 5 and the lower bottle body 2 are screwed together. The outer side wall of the solid cylinder is provided with threads, and the middle of the solid cylinder is provided with a filter outlet 9. The filter outlet 9 is a small water outlet to prevent water from gushing out too much per unit time; There are threads on the inside of bottle cap 6, which are match the threads on the outer side wall of the solid cylinder, and the bottle cap 6 is screwed to the solid cylinder; The rolling device placed in the lower bottle body 2 comprises the handle 4 and the pressing plate 3. The handle 4 is a long strip, which is connected to the upper part of the pressing plate 3 on one end; The inner side of the upper bottle body 5 is fixedly connected with a cross bar 8 and the other end of the cross bar 8 is fixedly connected to the other end of the handle 4, and the handle 4 is perpendicular to the cross bar 8.

The lower part of the pressing plate 3 is sleeved with a rubber sleeve 1. By adopting the pressing plate 3 of the rubber sleeve 1, the soft contact with the kiwifruit is realized, the contact area is enlarged, and the kiwifruit seeds are not damaged by pressing.

The length of the handle 4 is longer than the height of the lower bottle body 2. The length of the handle 4 is longer than the height of the lower bottle body 2, so that the kiwifruit can be conveniently crushed by hands.

The solid cylinder is most suitable to be made of materials with large density, so that the gravity center of the upper bottle body 5 moves downwards after being filled with water, and the whole upper bottle body 5 is placed more stably.

When the present invention works, first unscrew the upper bottle body 5 and the lower bottle body 2, and both the upper bottle body 5 and the lower bottle body 2 are placed open up; Put the decomposed and peeled kiwifruit into the lower bottle body 2 and crush it with a rolling device by holding the upper bottle body 5. By holding the upper bottle body 5 by hand, smashing the pressing plate 3 up and down, and the rubber sleeve 1 directly acting on the kiwifruit pulp to fully separate the pulp and seeds; Transfer the diluted kiwifruit pulp to the upper bottle body 5 with the bottle cap 6, and let it stand for a while to separate the pulp and seeds. The pulp is on the upper layer and the seeds are on the lower layer. Remove most of the pulp from the opening of the upper bottle body 5. Pour it out, add water again to dilute and set aside, open the bottle cap 6 to filter out the liquid with seeds from the filter outlet 9 of the upper bottle body 5, the size of the filter outlet 9 is a few millimeters; see that the liquid flowing out does not contain seeds or when the number of seeds is very small, immediately transfer the remaining liquid in the bottle 5 and pour it away; Repeat the above steps with the collected liquid with seeds, and repeat this step several times, there will be fewer impurities in the water. Pour out the water, you can get purer seeds.

While embodiment of the present invention have been shown and described, it will be understood by those technicians of this field that various changes, modifications, substitutions and alterations can be made thereto without departing from the principles and spirit of the invention, the scope of which is defined by the appended claims and their equivalents.

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CLAIMS

1. A kiwifruit seed collection device is characterized in that:

It comprises a lower bottle body, wherein the lower bottle body has a barrel-shaped structure with an opening at the upper end; a connecting ring is also arranged at the opening at the upper end of the lower bottle body; threads are arranged on the outer side wall of the connecting ring; the inner side of the connecting ring is flush with the inner side of the lower bottle body;

It comprises an upper bottle body, wherein the upper bottle body comprises a lower annular structure, a middle hollow truncated cone-shaped structure, an upper solid cylinder and a lower annular structure; the middle hollow truncated cone-shaped structure is connected with the upper solid cylinder in sequence; threads are arranged at the inner side of the lower end of the upper bottle body; the threads on the upper bottle body are matched with the threads arranged on the outer side wall of the connecting ring; the upper bottle body is in threaded connection with the lower bottle body; the outer side wall of the solid cylinder is provided with the threads;

It comprises a bottle cap, wherein threads are arranged on the inner side of the bottle cap; the threads on the inner side of the bottle cap are matched with the threads on the outer side wall of the solid cylinder;

It comprises a rolling device placed in the lower bottle body, the rolling device includes a handle and a pressing plate, the handle is elongated, and one end of the handle is connected to the upper part of the pressing plate; A cross bar is fixedly connected to the inside of the bottle body, the other end of the cross bar is fixedly connected with the other end of the handle, and the handle is perpendicular to the cross bar.

2. According to claim 1, the kiwifruit seed collecting device is characterized in that the lower part of the pressing plate is sleeved with a rubber sleeve.

3. According to claim 1, the kiwifruit seed collecting device is characterized in that the length of the handle is longer than the height of the lower bottle body.

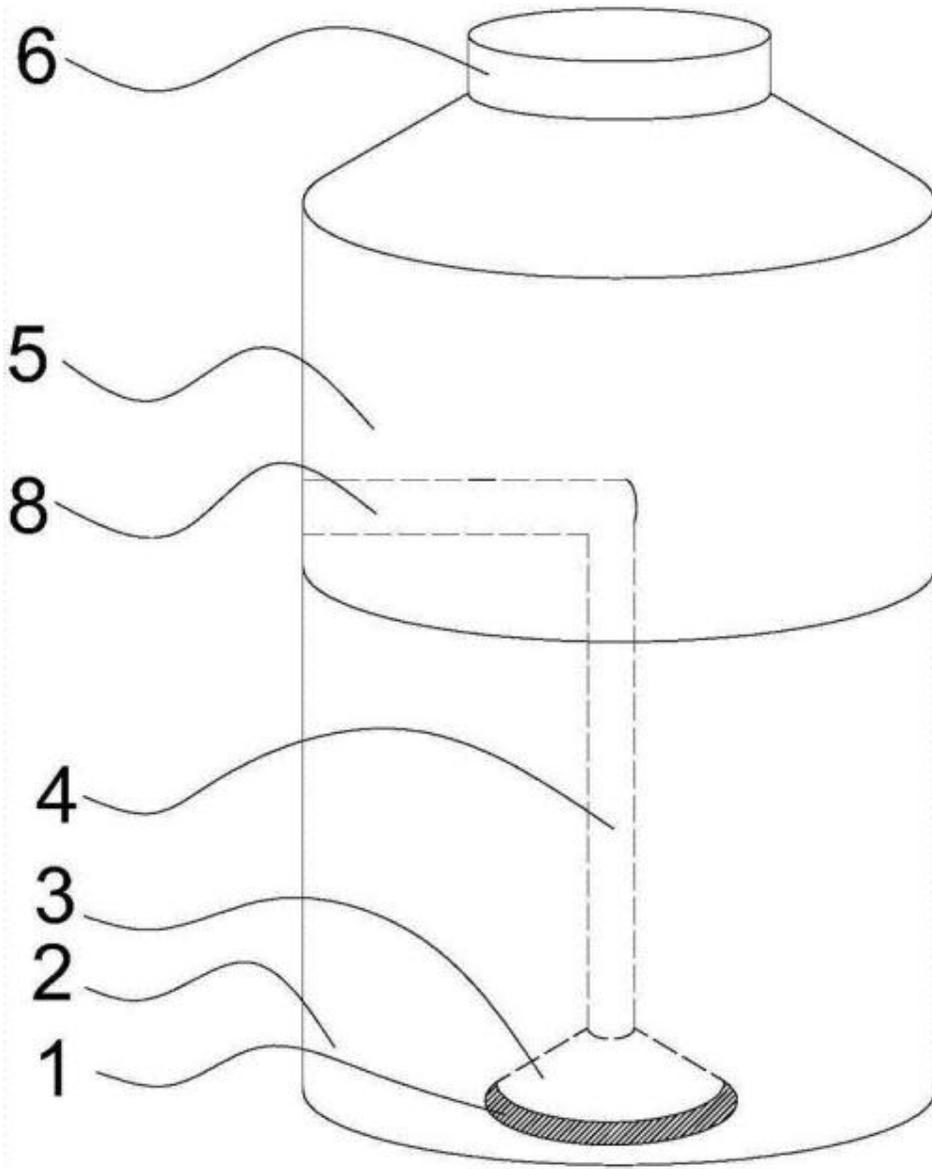


Figure 1

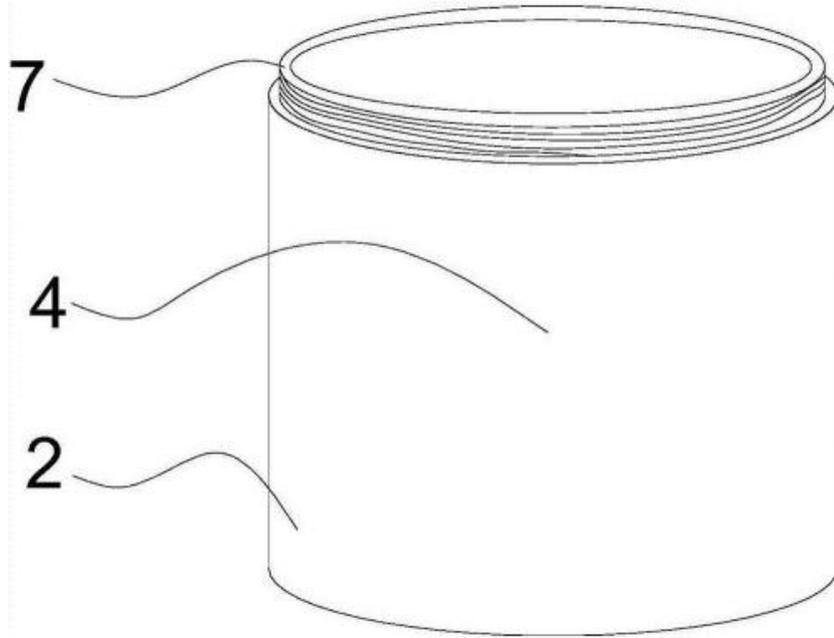


Figure 2

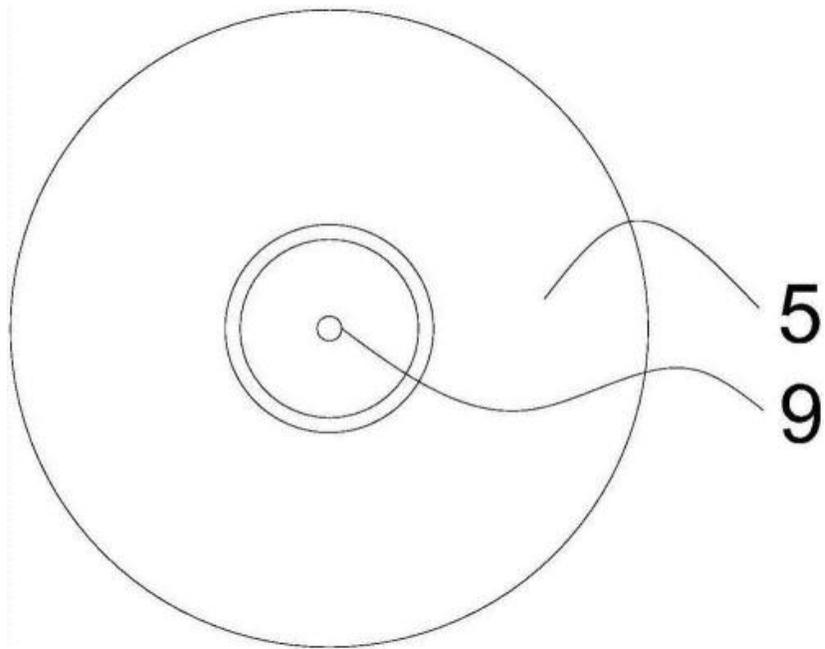


Figure 3